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(54) Title: MULTI-PURPOSE CATHETERS, CATHETER SYSTEMS, AND RADIATION TREATMENT		
(57) Abstract <p>This invention is new apparatuses and methods for treatments to be used from inside conduits or biological pathways. Examples of the biological pathways in which these new apparatuses and methods may be used include arteries, veins, and respiratory ways. Multi-purpose catheters (10) and catheter systems using structures including wires (2108), balloons (2150), and cords (2204) are described as well as methods to use such catheters and catheter systems. One of the embodiments is a configurable wire system which carries or transports radioactive sources. The wire is used in conjunction with a closed-end channel catheter.</p> <div data-bbox="836 1165 1461 1984"> <p>The diagram shows a cross-sectional view of a catheter system. A curved outer sheath is labeled 'AO'. Inside, a central lumen is labeled 'LC'. A side lumen or channel is labeled 'RC'. A bundle of 'cordes' (cords) is shown entering the central lumen. At the distal end, a wire labeled '2104' is shown, with a specific point or feature labeled '2118'.</p> </div>		